

WHAT IS CLAIMED IS:

1. A power regulator, comprising:
 - a linear control circuit having an output terminal electrically connected to an input terminal thereof for producing a reference voltage; and
 - a pulse width modulation circuit electrically connected to said linear control circuit in response to said reference voltage and an input voltage so as to produce an output voltage.
2. The power regulator as claimed in claim 1, wherein said linear control circuit is an operational amplifier.
3. The power regulator as claimed in claim 2, wherein said output terminal of said operational amplifier is electrically connected to an inverting input terminal thereof.
4. The power regulator as claimed in claim 1, wherein said pulse width modulation circuit is a synchronous pulse-width-modulation circuit.
5. The power regulator as claimed in claim 1, wherein said pulse width modulation circuit is an asynchronous pulse-width-modulation circuit.